



Addressing Species at Risk Before Listing - MCB Camp Lejeune and Coastal Goldenrod



| Report Documentation Page | | | | Form Approved OMB No. 0704-0188 | |
|--|------------------------------------|-------------------------------------|--|---|------------------------------------|
| Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. | | | | | |
| 1. REPORT DATE 01 AUG 2004 | | 2. REPORT TYPE N/A | | 3. DATES COVERED - | |
| 4. TITLE AND SUBTITLE Addressing Species at Risk Before Listing - MCB Camp Lejeune and Coastal Goldenrod | | | | 5a. CONTRACT NUMBER | |
| | | | | 5b. GRANT NUMBER | |
| | | | | 5c. PROGRAM ELEMENT NUMBER | |
| 6. AUTHOR(S) | | | | 5d. PROJECT NUMBER | |
| | | | | 5e. TASK NUMBER | |
| | | | | 5f. WORK UNIT NUMBER | |
| 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) MCB Camp Lejune, North Carolina | | | | 8. PERFORMING ORGANIZATION REPORT NUMBER | |
| 9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) | | | | 10. SPONSOR/MONITOR'S ACRONYM(S) | |
| | | | | 11. SPONSOR/MONITOR'S REPORT NUMBER(S) | |
| 12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release, distribution unlimited | | | | | |
| 13. SUPPLEMENTARY NOTES See also ADM002111. Department of Defense Conservation Conference. Held in Savannah, Georgia on August 22-27, 2004, The original document contains color images. | | | | | |
| 14. ABSTRACT | | | | | |
| 15. SUBJECT TERMS | | | | | |
| 16. SECURITY CLASSIFICATION OF: | | | 17. LIMITATION OF ABSTRACT UU | 18. NUMBER OF PAGES 19 | 19a. NAME OF RESPONSIBLE PERSON |
| a. REPORT unclassified | b. ABSTRACT unclassified | c. THIS PAGE unclassified | | | |



Pilot Project: Species at risk on DOD installations

- Funded by DOD Legacy Resource Management Program
- Developed in partnership with the U.S. Fish & Wildlife Service, NatureServe and the North Carolina State Natural Heritage Program
- Camp Lejeune chosen as Marine Corps installation and Coastal Goldenrod was chosen as the species at risk



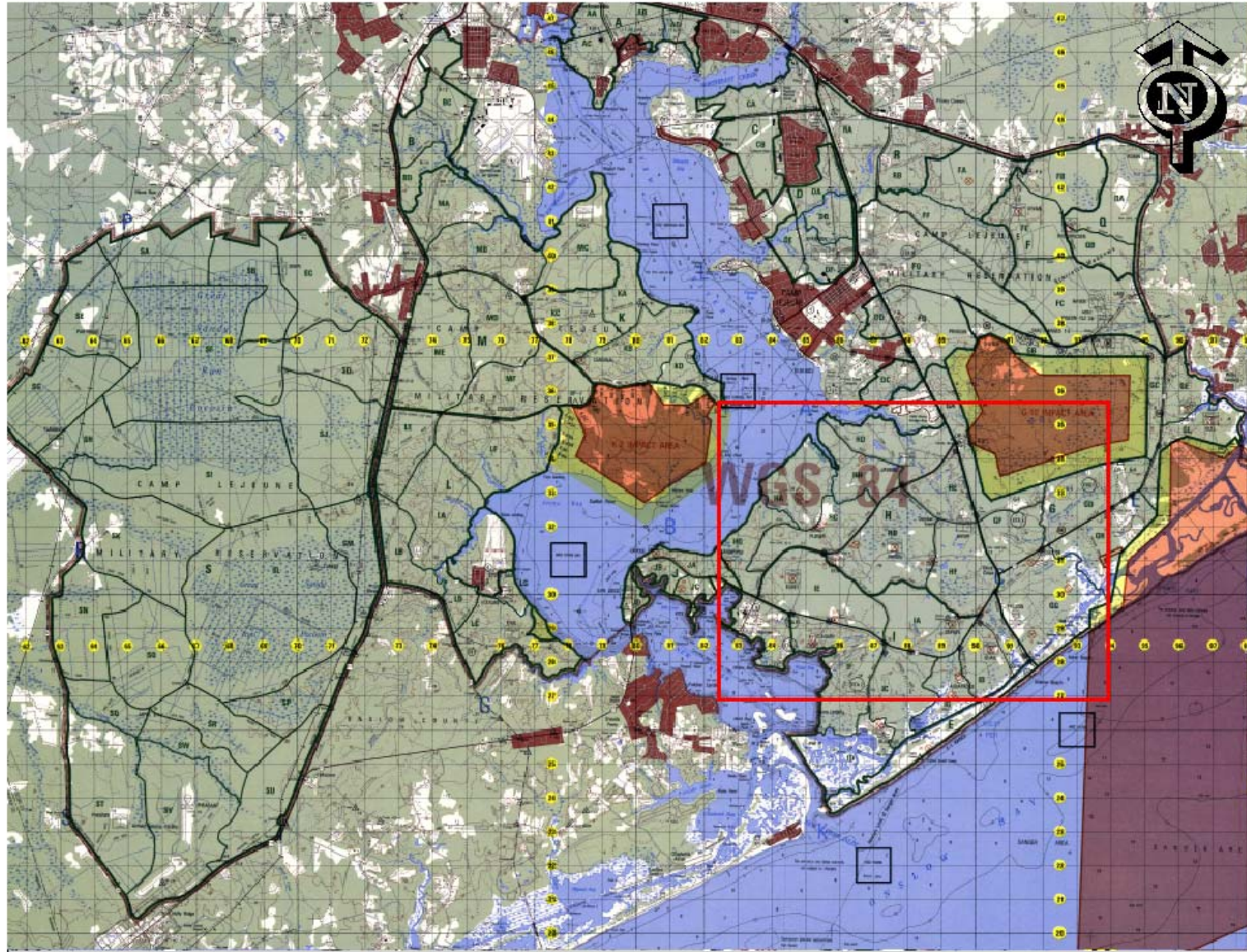
Purpose

- To develop voluntary guidelines for management of species at risk that are not federally listed
- Species should have a high % of populations on DOD land, so good management by DOD will have a significant impact on entire population
- Goal: to manage target species in a way that will make listing unnecessary and therefore maintain flexibility for DOD installations



- *153,000 acres total
- *24,000 acres open water
- *12 miles beachfront

Camp Lejeune, North Carolina



Coastal Goldenrod (*Solidago villosicarpa*)

- Discovered on Camp Lejeune in 1991
- Described as a new species in 2000(LeBlond)
- Known to exist in only four populations (3 are on Camp Lejeune)



Coastal Goldenrod (*Solidago villosicarpa*)

- Ranked G1 – critically imperiled globally
- Ranked S1 – critically imperiled in NC
- Federal Species of Concern



Basal Rosette



Habitat

- Maritime influence
- On MCBCCL, found in disturbed areas dominated by loblolly pine and mixed hardwoods
- Thrives in disturbance-caused openings (including roadsides)
- Not associated with high fire frequency



“Typical” Habitat



Disturbed Site

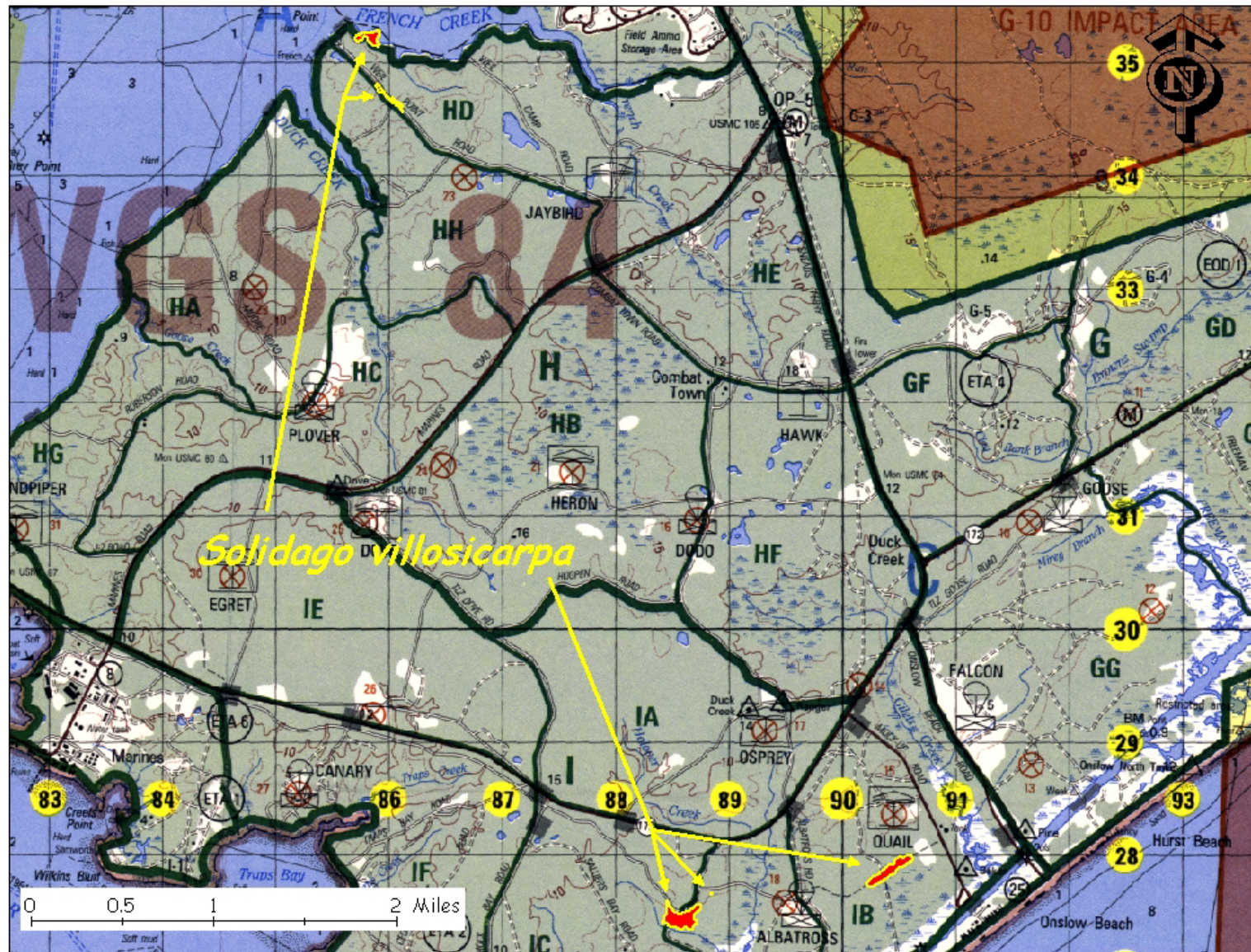


Threats on MCBCL

- Construction impacts associated with infrastructure
 - Vehicle traffic
 - Digging holes and trenches, and bivouacs
 - Prolonged heavy shading
- * Training at current levels does not seem to be detrimental



Solidago villosicarpa on MCBCL





Management Objective

- No more than 30% decrease in number of individuals in each of three populations over a 10-year period

(collect data each year for 10 years – # of individuals, aerial extent and % of individuals in flower, fruit or vegetative condition will be critical factors in assessing management goals)



Management Recommendations

- Survey to determine extent of population
- Avoid soil-disturbing activities – maintain habitat
- Avoid damage to individual plants
- Determine whether canopy should be thinned, or shrub competition should be reduced



Research Recommendations *

- study natural history
- pollination mechanisms
- collect seeds
- determine historic fire frequency

* As much as possible, research and management schemes will be developed, and carried out with the help of partners (USFWS, NCNHP, NC Botanical Garden)



What's in it for Camp Lejeune?

- Exploring an agreement with US Fish & Wildlife Service to ensure good management will not negatively impact training in the future
- Model: Candidate Conservation Agreement with Assurances
- Benefits of keeping *S. villosicarpa* off the endangered species list
- Flexibility in future training and planning



Acknowledgements

Dale Suitor – U.S. Fish & Wildlife Service

Richard LeBlond – NC Natural Heritage Program

Misty Franklin – N C Natural Heritage Program

NatureServe



The North Carolina
Natural Heritage Program



Questions?

